

# INTERNATIONAL SEARCH REPORT

Int. Patent Application No  
PCT/DK2004/000599

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K38/26 G01N33/74 G01N33/72 A61P3/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, EMBASE, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95/31214 A (LONDON HEALTH ASS ; DUPRE JOHN (CA)) 23 November 1995 (1995-11-23) cited in the application the whole document	1-19, 27-29, 54-58
X	WO 00/42026 A (CORNELIS DE JONG JOHANNES ; KODRA JANOS TIBOR (DK); PETTERSON INGRID V) 20 July 2000 (2000-07-20) page 43, lines 5-7; claims 42-53,60,61	1-17, 54-58
X	WO 03/002136 A (NOVO NORDISK AS) 9 January 2003 (2003-01-09)  page 10, last paragraph; claim 25	1-23, 27-29, 54-58
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

3 March 2005

Date of mailing of the international search report

30. 03. 2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/08871 A (NOVONORDISK AS ; KNUDSEN LISELOTTE BJERRE (DK); NIELSEN PER FRANKLIN () 5 March 1998 (1998-03-05) cited in the application page 5, lines 3-12; example 37	1-23, 27-29, 54-58
X	US 5 424 286 A (ENG JOHN) 13 June 1995 (1995-06-13) cited in the application column 2, lines 37-60	1-17, 24-29, 54-58
P,X	WO 2004/050115 A (NOVO NORDISK AS) 17 June 2004 (2004-06-17)  claims 1,2	1-17, 24-29, 54-58
X	EP 0 201 187 A (NOVO INDUSTRI A/S; NOVO NORDISK A/S) 12 November 1986 (1986-11-12) page 2, lines 9-31 page 5, lines 15-18	47-53
X	OLSEN BIRTHE SUSSANE ET AL: "A 6-year nationwide cohort study of glycaemic control in young people with Type 1 diabetes: Risk markers for the development of retinopathy, nephropathy, and neuropathy" JOURNAL OF DIABETES AND ITS COMPLICATIONS, vol. 14, no. 6, November 2000 (2000-11), pages 295-300, XP002319816 ISSN: 1056-8727 the whole document	47-53
X	DANNE T ET AL: "Persistent differences among centers over 3 years in glycemic control and hypoglycemia in a study of 3,805 children and adolescents with type 1 diabetes from the Hvidovre Study Group." DIABETES CARE. AUG 2001, vol. 24, no. 8, August 2001 (2001-08), pages 1342-1347, XP002319817 ISSN: 0149-5992 the whole document	47-53
X	HOEY H ET AL: "Good metabolic control is associated with better quality of life in 2,101 adolescents with type 1 diabetes." DIABETES CARE. NOV 2001, vol. 24, no. 11, November 2001 (2001-11), pages 1923-1928, XP002319818 ISSN: 0149-5992 the whole document	47-53

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## INTERNATIONAL SEARCH REPORT

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PCT/DK2004/000599

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NORDLY S ET AL: "Quality of diabetes management in children and adolescents in Denmark." DIABETIC MEDICINE : A JOURNAL OF THE BRITISH DIABETIC ASSOCIATION. JUL 2003, vol. 20, no. 7, July 2003 (2003-07), pages 568-574, XP002319819 ISSN: 0742-3071 the whole document	47-53
A	VILSBOELL T ET AL: "EVALUATION OF BETA-CELL SECRETORY CAPACITY USING GLUCAGON-LIKE PEPTIDE 1" DIABETES CARE, AMERICAN DIABETES ASSOCIATION, ALEXANDRIA, VA, US, vol. 23, no. 6, June 2000 (2000-06), pages 807-812, XP000984497 ISSN: 0149-5992 the whole document	30-46

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# INTERNATIONAL SEARCH REPORT

national application No.  
PCT/DK2004/000599

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 1-29 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

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**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-29, 54-58

Use of GLP-1 agonists in the treatment of type 1 diabetes  
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2. claims: 30-46

Diagnosis of type 1 diabetes by analysing the concentration  
of endogenous GLP-1(7-37) and GLP-1(7-36) amide  
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3. claims: 47-53

Diagnosis of type 1 diabetes by analysing the level of HbA1c  
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DK2004/000599

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Information on patent family members

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